

APPENDIX P

SOW 6643-A-0398

P-3C Aircrew Tactical Team Trainer (PACT3)
Device 2H163 S/N 005

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Trainer Description for Device 2H163 P-3C PACT
Located at
AFB Kadena, Okinawa, Japan

1.1 **TRAINER DESCRIPTION.** The PACT3 training device will provide active, passive and multi-static acoustics training in a deployable Personnel Computer (PC) based simulation. Providing accelerated fielding of critical ASW training capability in support of remotely deployed and fixed based P-3 Aircrew.

1.1.1 **FUNCTION AND GENERAL DESCRIPTION.** The PACT3 training device will provide the P-3 Anti-Submarine Warfare (ASW) tactical nucleus (Pilot, Tactical Coordinator (TACCO)), Sensor 1, 2, and 3, with an Instructor/Operator Station (IOS). The equipment configuration consists of five (5) simulated Stations, Pilot, Tactical Coordinator (TACCO), and Sensor 1, 2, and 3) with the following capabilities:

- Improved Extended Echo Ranging (IEER) capable
- Radar, Electronic Support Measures (ESM) & Forward Looking Infrared Radar (FLIR)
- Naval Aviation Simulation Master Plan (NASMP) Compliant
- Navy Continuous Training Environment (NCTE) Interoperable
- Aircrew ASW proficiency opportunity
- Deployable, real world fidelity
- active, passive & multi-static acoustics
- Instructor/Operator Station (IOS).
- Active, passive and multi-static acoustics equivalent with USQ-78B
- Non-acoustics consistent with current AIP aircraft (APS-137, MAD, ALR-95, EO/IR and visual)
- Simulation of over 100 targets (both acoustic & non-acoustic)
- Operators will have the ability to construct acoustic targets
- Current torpedo selections and capabilities
- Replay and metric collection to determine crew performance

1.1.2 **TRAINEE STATION.** The primary trainee stations subassemblies are listed by position as follows:

PACT3 Pilot Station

Nomenclature	Quantity	Part Number
Flight Controls	1	G02-PZ44
Capacitive Touch Screen Monitors	2	TP260TDO
Alphanumeric Keyboard	1	G84-4100LCAUS-0 (Cherry)
Mouse	1	Standard
Communication Headset	1	Model H10-76
Communications Footswitch & Inline Keying Device	1	APC40

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TACCO STATION

Nomenclature	Quantity	Part Number
Capacitive Touch Screen Monitors	2	TP260TDO
Programmable Entry Panel	1	1010010-001
Alphanumeric Keyboard	1	G84-4100LCAUS-0 (Cherry)
Mouse	1	Standard
Communication Headset	1	Model H10-76
Communications Footswitch & Inline Keying Device	1	APC40
Trackball	1	ESPECIAL

Sensor 1, 2, Stations

Nomenclature	Quantity	Part Number
Capacitive Touch Screen Monitors	1	TP260TDO
Alphanumeric Keyboard	1	G84-4100LCAUS-0 (Cherry)
Mouse	1	Standard
Communication Headset	1	Model H10-76
Communications Footswitch & Inline Keying Device	1	APC40
Trackball	1	ESPECIAL

Sensor 3, Station

Nomenclature	Quantity	Part Number
Capacitive Touch Screen Monitors	2	TP260TDO
Programmable Entry Panel	1	1010010-001
Alphanumeric Keyboard	1	G84-4100LCAUS-0 (Cherry)
Mouse	1	Standard
Communication Headset	1	Model H10-76
Communications Footswitch & Inline Keying Device	1	APC40
Trackball	1	ESPECIAL
Hand Controller	1	HG-332UIX000-U-1113

1.1.3 INSTRUCTOR. The primary instructor subassemblies are listed by position as follows:

Instructor Operator Station (IOS)

Nomenclature	Quantity	Part Number
Capacitive Touch Screen Monitors	2	TP260TDO
Alphanumeric Keyboard	1	G84-4100LCAUS-0 (Cherry)
Mouse	1	Standard

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Nomenclature	Quantity	Part Number
Communication Headset	1	Model H10-76
Communications Footswitch & Inline Keying Device	1	APC40
Trackball	1	ESPECIAL

1.1.1.4 CLASSROOM DISPLAY SYSTEM. N/A

1.1.1.5 COMPUTER SYSTEM(S) AND PERIPHERALS. See Paragraph 1.1.14, systems components parts list.

1.1.1.6 AIRCRAFT COMMON SUBSYSTEM(S). N/A

1.1.1.7 POWER SYSTEM. Facility power via Uninterruptable Power Supply (UPS).

1.1.1.8 VISUAL/VIDEO SYSTEM(S). N/A.

1.1.1.9 MOTION SYSTEMS. N/A

1.1.1.10 AIR CONDITIONING SYSTEM/ENVIROMENT SYSTEMS (AES). N/A

1.1.1.11 MOTOR GENERATOR SETS. N/A

1.1.1.12 HYDRAULIC SYSTEM/PNUEMATIC SYSTEMS(S). N/A

1.1.1.13 PLANNED MODIFICATIONS. None planned.

1.1.1.14 SYSTEMS COMPONENTS PARTS LIST.

PACT3 System Parts List

Part Name	Part Number	Station	Supplier/Manufacturer
SuperMicro 8026B-TRF	2042G-6RF	Acoustic Server	Essence Tech, Inc
Station Computers	RM31408T/Server1	All & TMS	New Tech Solutions
AOP/SS1/SS2 Computer	C2P/Server2	SS1/SS2	New Tech Solutions
Telestra 4		Comms	Asti
Telestra 4 Rack Rails		Comms	Asti
Touch Screen Monitors	TP260TDO	All	TEK Panel
Monitor Stands	TP260TDO-DTS	TACCO & SS3	TEK Panel
Server Rack Console	F1DC108H-TAA	Server Racks	Belkin
24 Port Gigabit Rackmount Switch	JGS524FNA	Server Racks	Netgear
RS-485 Serial Adapter	Fastcomm FSCC	TACCO & SS3	CommTech
KVM Switch	Adderview AVG2	TACCO & SS3	Adder
Station Keyboards	G84-4100LCAUS-0 (Cherry)	SS1,2,3/TACCO/Pilot	Barcodes Inc
Single Channel Capture Card	RGB-e1	SS3	D.Y. Nye Co., Inc
Handgrip Controller	HG-332UIX000-U-1113	SS3	CH Products
TrackBall	ESPECIAL	TACCO & SS3	Clearly Superior Technologies (CST)

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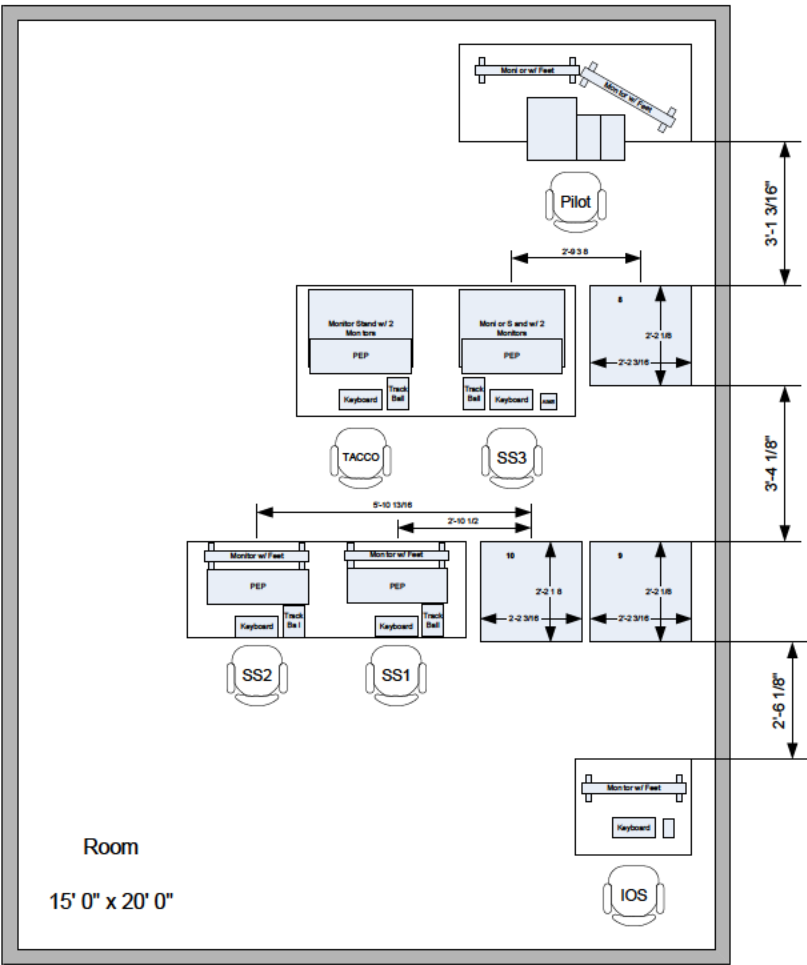
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Monster Cable DVI400-2M DVI-D Video Cable (2 meter)			Monster (Amazon)
5ft CAT6 Cable (Black)	2103834		cdwg.com
6ft CAT6 Cable (Blue)	648818		cdwg.com
25ft CAT6 Cable (Blue)	1180230		cdwg.com
6ft CAT6 Cable (Green)	801151		cdwg.com
25ft CAT6 Cable (Green)	1180228		cdwg.com
25ft CAT6 Cable (Red)	274213		cdwg.com
15ft Male to Male PS2 Cable	CBL-KBD-SWT-15FT		directron.com
6ft Male to Male PS2 Cable	CBL-KBD-SWT-6FT		directron.com
KVM Cable	CAB-9F/15M-2M	N/A	Adder
Surge Protector	ISOBAR8ULTRA	N/A	TrippLite
Rackmount Surge Protector	ISOBAR12ULTRA	N/A	TrippLite
Server Rack Console PS2 Cable	389375	N/A	New Tech Solutions
Server Rack Console USB Cable	389379	N/A	New Tech Solutions
PEPs	1010010-001	TACCO & SS3	ESP Inc.
PEP Cables	1010003-1	TACCO & SS3	ESP Inc.
Flight Controls Yoke & Throttle Quad	G02-PZ44	Pilot	Saitek
17U Server Case	103162	N/A	New Tech Solutions
Monitor Cases	PACT3 Custom	N/A	Calzone LTD
PEP Cases	PACT3 Custom	N/A	Calzone LTD
Pelican Cases	Pelican 1630	N/A	Calzone LTD
Camber Radar	5010010-10	SS3	Camber Corp
X-Plane	N/A	Pilot/SS3	xplane.org
X-Plane USB Key	Basic 325-1 CDGTR902330	Pilot/SS3	xplane.org
UPS	BR1300G	N/A	APC
D-Link USB Hubs	DUB-H4	SS1/2	D-Link
1U 19" Rackmount Panel	RMP-ACU2-01	TACCO & SS3	Asti
Motherboard to RS232 Ext Bracket	A09082900UX0035	TACCO & SS3	Sourcingmap.com
Startech 3.5mm Stereo Audio Cable - 15' M/M	MU15MMS	N/A	Startech.com
Belikn 10' USB Extension Cables	F3U134-10	All	Calzone LTD
Audio Advantage Amigo II USB Sound Card & Headset Adapter	TBS-1155-01	SS1/2	Turtle Beach
Falcon Voltage/Freq Converter/Back-Up	SG2K-2TX-VFC	N/A	Falcon Electric, Inc
System Hard Drives (Constellation ES 1TB)	9JW154-502	All	Seagate

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2.1 ILLUSTRATIONS

A. PACT 3 CLASS ROOM LAYOUT.



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B. TACCO STUDENT STATION.



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C. PILOT STUDENT STATION.



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| 3.1 MISSION ESSENTIAL SUBSYSTEM MATRIX (MESM). N/A4.1 MAINTENACE SUPPORT HOURS (MSH)-CMS. On-call 4 hour response time.

Device: 2H163
Serial #: 005
LOCATION: AFB Kadena, Okinawa Japan

TRAINER OPERATION: On-Call Preventative/Corrective Maintenance

Maintenance hours for PMS/CMS are 0800-1600 Monday through Friday. The PACT3 is an on-call device not to exceed eight (8) hours a day. The Contractor shall conduct preventative maintenance and corrective maintenance in accordance with device Original Equipment Manufacturer (OEM) and COTS OEM documentation as appropriate. The Contractor shall ensure qualified support is available during MSH. Technician will notify the site/device Scheduling Authority/Contracting Officer's Representative (COR) and Site Manager (SM), if device is not up and operational within six (6) hours after being notified.

The PACT3 may be used for training before, during and after MSHs. The Contractor shall inspect and repair any discrepancies reported by the Government or as discovered through CMS actions. The Contractor shall use its standard COMS Maintenance/Support Plan procedures and paragraph 4.3.2.5 of the SOW as the appropriate level of service and support upon request.

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5.1 Aircraft Common Equipment (ACE). Not Applicable.

6.1 PARTIAL MISSION CAPABILITY STANDARD. Not Applicable.

7.1 FLOOR PLANS AND PROJECTED ADDITIONS. A complete list of floor plans and projected additions are available at each training device location.